

**ABSTRACT**

A base station is provided in a radio communication system by which first communication connections and second communication connections are transmitted. A first radio network controller is provided, by which the first communication connections are transmitted and also a second radio network controller, by which the second communication connections are transmitted. The base station comprises a common high frequency component which processes signals for the first communication connections and signals for the second communication connections. The signals of the first communication connections and the second communication connections are transmitted across an air gap at different carrier frequencies and can be sent by different carriers.